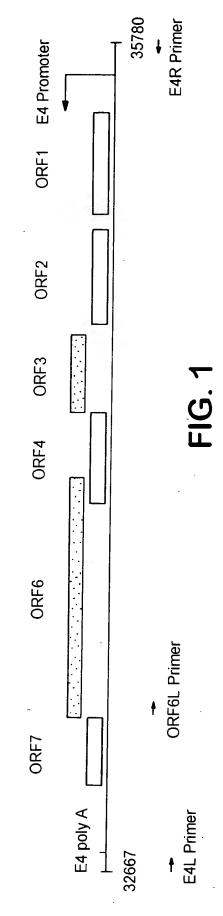
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Sheet I of 23

Title: ADENOVIRUS VECTORS, PACKÁGING CELL LIN
COMPOSITIONS, AND METHODS FOR PREPAR
AND USE
Serial No.: 09/482,682
Examiner: Foley, S.A.
Our Docket No.: 22908-1235B

HELLER EHRMAN WHIT E & MCAULIFFE LLP
Sheet I of 23

Title: ADENOVIRUS VECTORS, PACKÁGING CELL LIN
COMPOSITIONS, AND METHODS FOR PREPAR
AND USE
Applicant: Von Seggern &
Filed: January 14, 2000
Art Group: 1648

200 bp



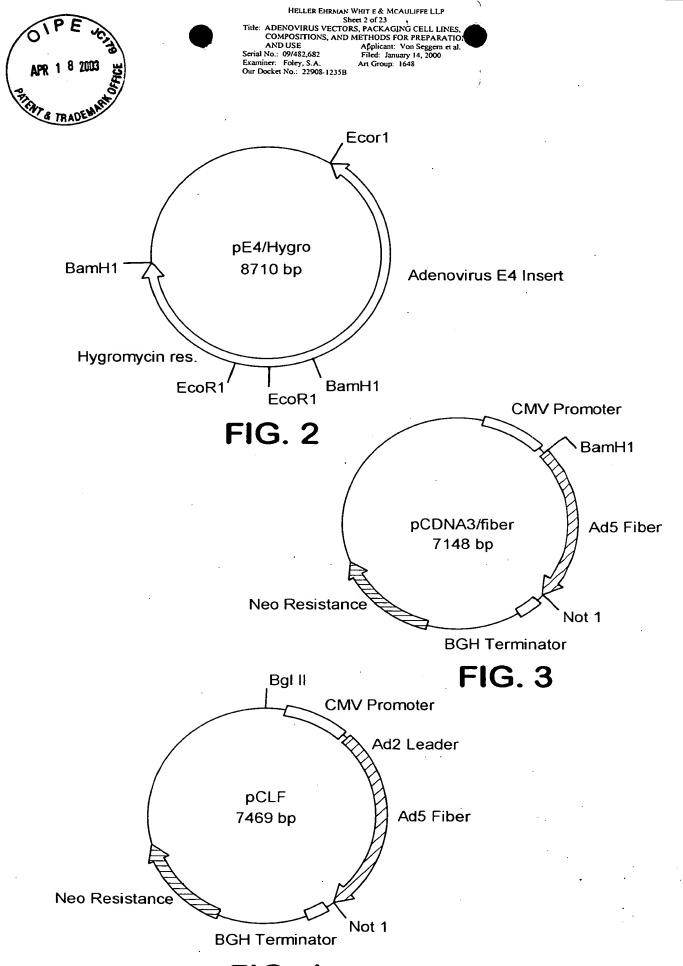


FIG. 4

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Sheet 3 of 23

Title: ADENOVIRUS VECTORS, PACKAGING CELL LINES,
COMPOSITIONS, AND METHODS FOR PREPARATION
AND USE
Serial No.: 09/482,682
Examiner: Foley, S.A.
Our Docket No.: 22908-1235B

Standards (Copies/genome)

293 5 25

3.1 kb Fragment --



FIG. 5

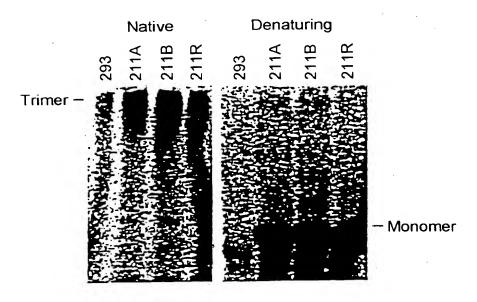


FIG. 6

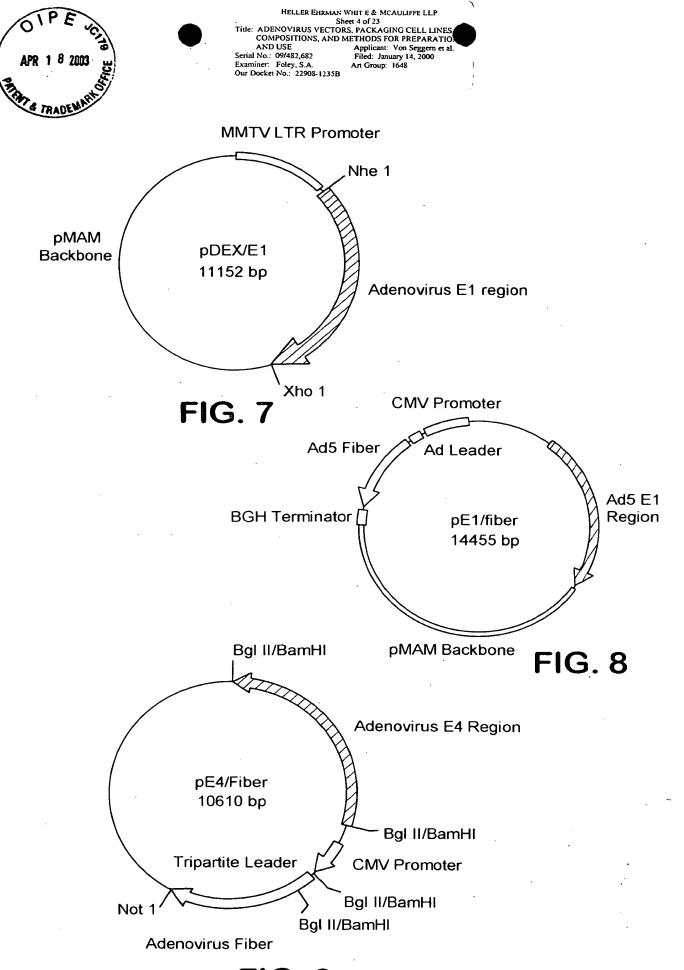


FIG. 9

HELLER EHRMAN WHIT E & MCAULIFFE LLP
Sheet 5 of 23

Title: ADENOVIRUS VECTORS, PACKAGING CELL LINES,
COMPOSITIONS, AND METHODS FOR PREPARATION
AND USE
Serial No.: 09/482,682
Examiner: Foley, S.A.
Our Docket No.: 22908-1235B

p∆E1Bβgal

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Functional Packaging Sequences



HELLER EHRMAN WHIT E & MCAULIFFE LLP
Sheet 6 of 23

Title: ADENOVIRUS VECTORS, PACKAGING CELL LINES,
COMPOSITIONS, AND METHODS FOR PREPARATION
AND USE
Serial No.: 09/482,682
Examiner: Foley, S.A.
Our Docket No.: 22908-1235B

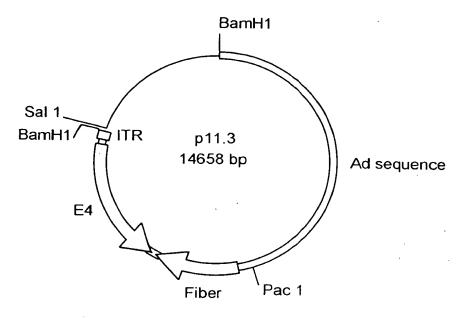


FIG. 11

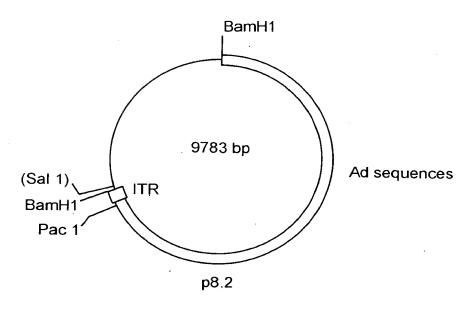


FIG. 12



HELLER EHRMAN WHIT E & MCAULIFFE LLP
Sheet 7 of 23

Title: ADENOVIRUS VECTORS, PACKAGING CELL LINES
COMPOSITIONS, AND METHODS FOR PREPARATI
AND USE
Serial No.: 09/482,682
Examiner: Foley, S.A.
Our Docket No.: 22908-1235B

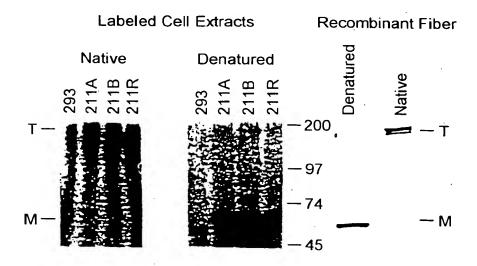


FIG. 13



HELLER EHRMAN WHIT E & MCAULIFFE LLP
Sheet 8 of 23

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COMPOSITIONS, AND METHODS FOR PREPARATIO
AND USE
Serial No.: 09/482,682
Examiner: Foley, S.A.
Our Docket No.: 22908-1235B

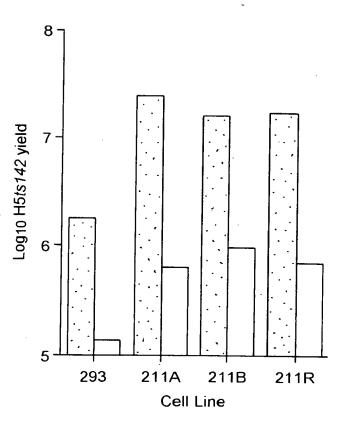


FIG. 14



HELLER EHRMAN WHIT E & MCAULIFFE LLP
Sheet 9 of 23

Title: ADENOVIRUS VECTORS, PACKAGING CELL LINES,
COMPOSITIONS, AND METHODS FOR PREPARATION
AND USE
Serial No: 09/482,682
Examiner: Foley, S.A.
Our Docket No.: 22908-1235B

Ad2/5	M-KRARPSEDTFNPVYPYDTETGPPTVPFLTPPFVSPNGFQESPP
Ad3	MAKRARIS-TSFNPVYPYEDESSS-QHPFINPGFISPDGFTQSPN
Ad19/37	MSKRURVEDD-FNPVYPYGYARNQ-NIPFLTPPFVSSDGFKNFPP
Ad40 (1)	M-KRARF-EDDFNPVYPYEHYN-PLDIPFITPPFAGSNGLOEKPP
Ad40 (2)	M-KRTR-IEDDFNPVYPYDTSSTPS-IPYVAPPFVSSDGLOENPP

FIG. 15A

Virus Serotype:	: Ad2	Ad3	
Cell Line:	. 293	211B 211R	293
Ad2/5 Fiber			

FIG. 15B



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Sheet 10 of 23

Title: ADENOVIRUS VECTORS, PACKAGING CELL LINES
COMPOSITIONS, AND METHODS FOR PREPARATIO
AND USE
Scrial No.: 09/482,682
Examiner: Foley, S.A.
Our Docket No.: 22908-1235B

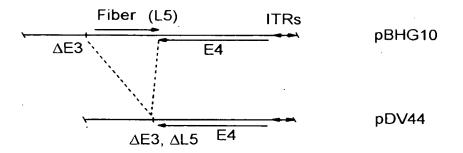


FIG. 16A

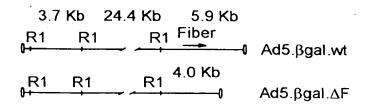
FIG. 16B



HELLER EHRMAN WHIT E & MCAULIFFE LLP
Sheet 11 of 23

Title: ADENOVIRUS VECTORS, PACKAGING CELL LINES,
COMPOSITIONS, AND METHODS FOR PREPARATION
AND USE
Scrial No: 09/482,682
Examiner: Foley, S.A.
Our Docket No.: 22908-1235B

FIG. 17A



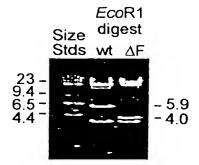


FIG. 17B

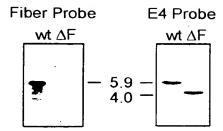


FIG. 17C



FIG. 18



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Sheet 12 of 23

Title: ADENOVIRUS VECTORS, PACKAGING CELL LINES,
COMPOSITIONS, AND METHODS FOR PREPARATION
AND USE
Serial No.: 09/482,682
Examiner: Foley, S.A.
Our Docket No.: 22908-1235B

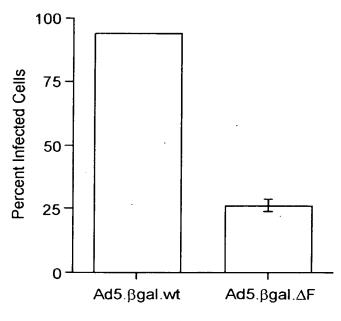


FIG. 19A

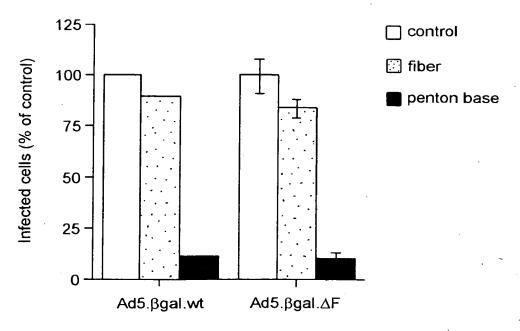


FIG. 19B



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Sheet 13 of 23

Title: ADENOVIRUS VECTORS, PACKAGING CELL LINE
COMPOSITIONS, AND METHODS FOR PREPARAY
AND USE
Serial No.: 09/482,682
Examiner: Foley, S.A.
Our Docket No.: 22908-1235B

Improved Fiber-complementing Cell Lines

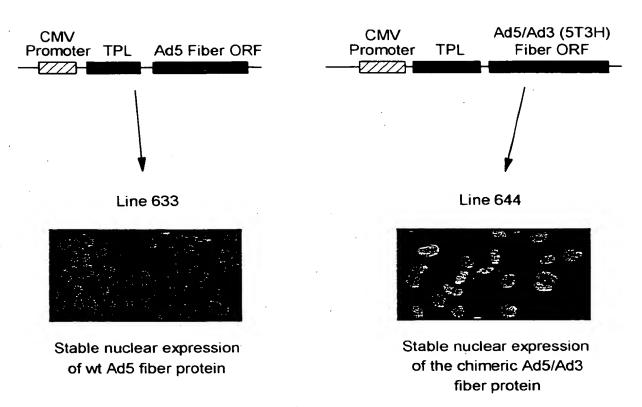


FIG. 20



HELLER EHRMAN WHIT E & MCAULIFFE LLP
Sheet 14 of 23

Title: ADENOVIRUS VECTORS, PACKAGING CELL LINES,
COMPOSITIONS, AND METHODS FOR PREPARATIO
AND USE
Serial No.: 09/482,682
Examiner: Foley, S.A.
Our Docket No.: 22908-1235B

Pseudotyping of Ad. β gal. Δ F

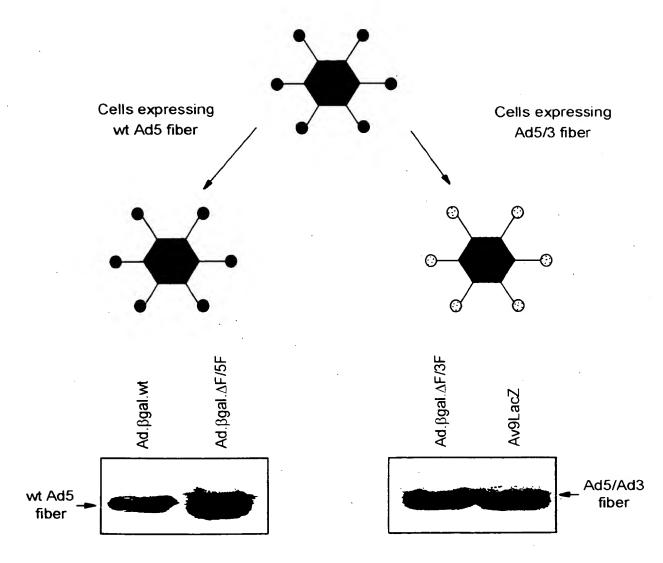


FIG. 21

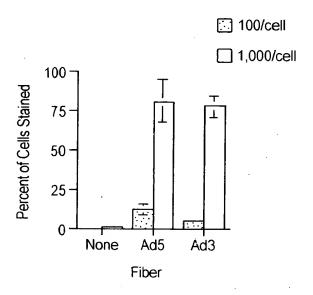


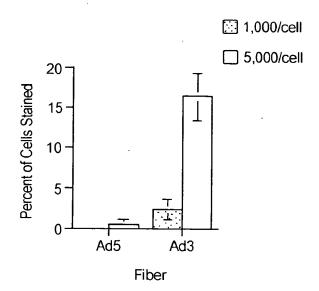
HELLER EHRMAN WHIT E & MCAULIFFE LLP Sheet 15 of 23 Title: ADENOVIRUS VECTORS, PACKAGING CELL LINE COMPOSITIONS, AND METHODS FOR PREPARAT.

AND USE Serial No.: 09/482,682 Examiner: Foley, S.A. Our Docket No.: 22908-1235B

Applicant: Von Seggern Filed: January 14, 2000 Art Group: 1648

211B Cells (Human Embryonic Kidney) MRC-5 Human Fibroblasts





A-10 Rat Aortic Endothelial Cells

1,000/cell 25 -] 10,000/cell Percent of Cells Stained 20 15 10 5 None Ad5 Ad3

Fiber

THP-1 Human Monocytic Cells

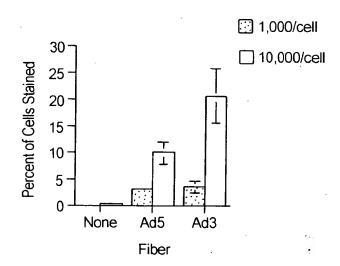


FIG. 22



HELLER EHRMAN WHIT E & MCAULIFFE LLP
Sheet 16 of 23

Title: ADENOVIRUS VECTORS, PACKAGING CELL LINES,
COMPOSITIONS, AND METHODS FOR PREPARATIO!
AND USE
Serial No.: 09/482,682
Examiner: Foley, S.A.
Our Docket No.: 2908,13358

AND USE
Serial No.: 09/482,682
Examiner: Foley, S.A.
Our Docket No.: 22908-1235B

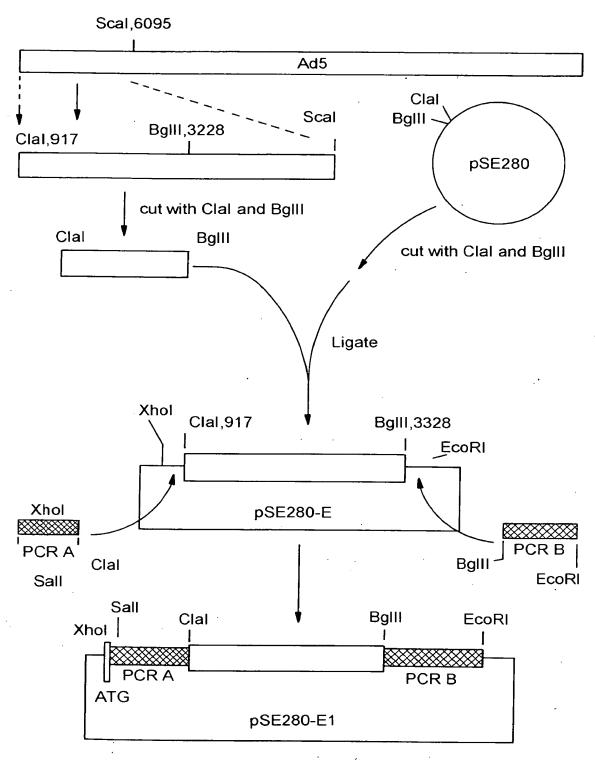
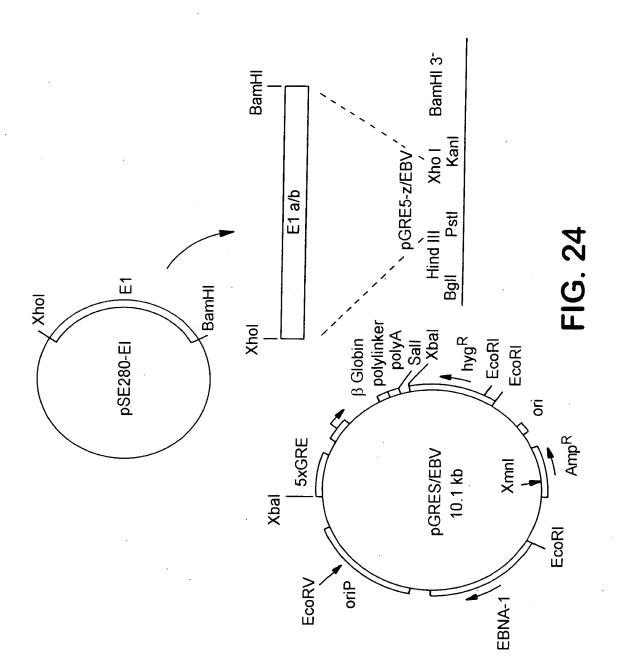


FIG. 23



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Sheet 17 of 23

Title: ADENOVIRUS VECTORS, PACKAGING CELL LINES,
COMPOSITIONS, AND METHODS FOR PREPARATIO
AND USE
Serial No.: 09/482,682 Filed: January 14, 2000
Examiner: Foley, S.A. An Group: 1648
Our Docket No.: 22908-1235B





HELLER EHRMAN WHIT E & MCAULIFFE LLP
Sheet 18 of 23

Title: ADENOVIRUS VECTORS, PACKAGING CELL LINES,
COMPOSITIONS, AND METHODS FOR PREPARATION
AND USE
Serial No: 09/482,682
Examiner: Foley, S.A.
Our Docket No:: 22908-1235B

HELLER EHRMAN WHIT E & MCAULIFFE LLP
Sheet 18 of 23

Title: January 14, 2000
Art Group: 1648

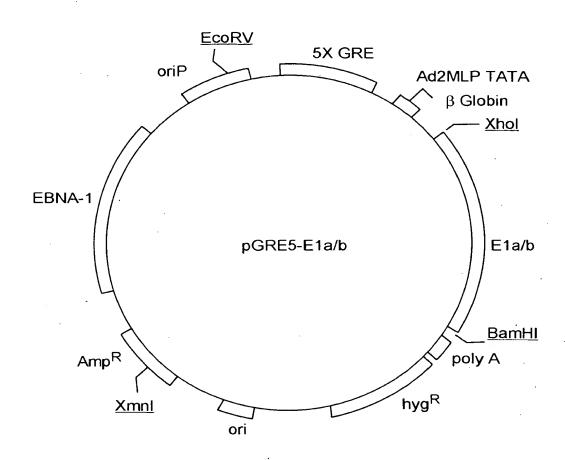


FIG. 25



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Sheet 19 of 23

Title: ADENOVIRUS VECTORS, PACKAGING CELL LINE
COMPOSITIONS, AND METHODS FOR PREPARATA
AND USE
Serial No.: 09/482,682
Examiner: Foley, S.A.
Our Docket No.: 22908-1235B

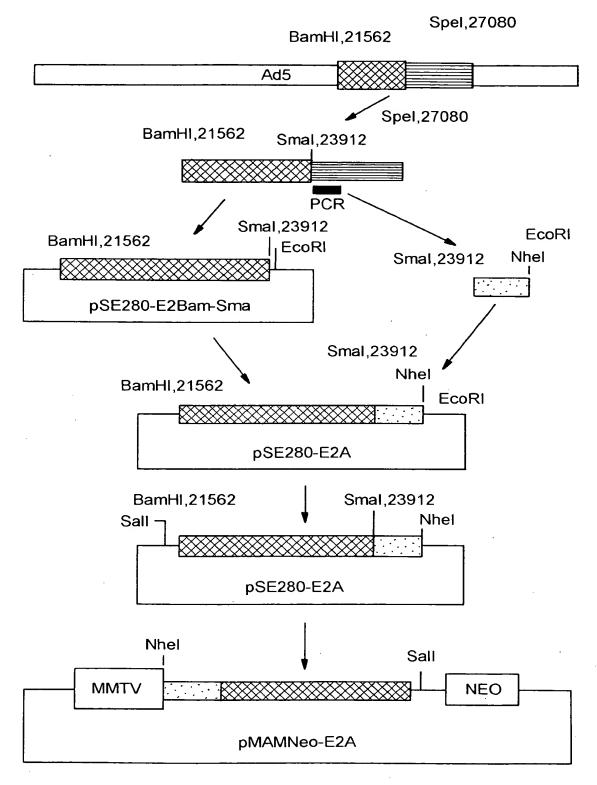
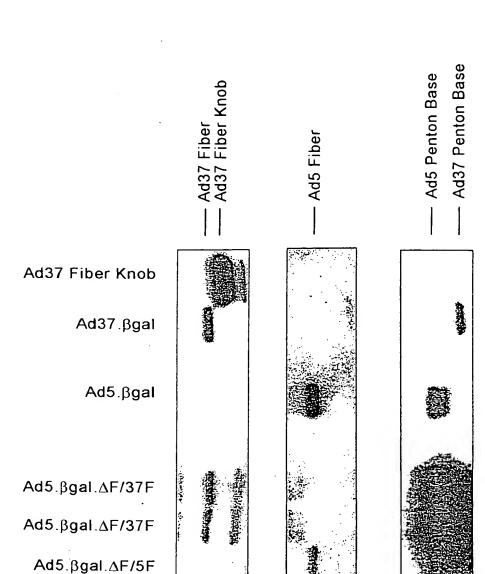


FIG. 26

HELLER EHRMAN WHIT E & MCAULIFFE LLP
Sheet 20 of 23

Title: ADENOVIRUS VECTORS, PACKAGING CELL LINES,
COMPOSITIONS, AND METHODS FOR PREPARATIO
AND USE
Serial No.: 09/482,682
Examiner: Foley, S.A.
Our Docket No.: 22908-12358



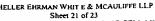


anti-37F

 $Ad\overset{!}{5}..\beta gal.\Delta F/0$

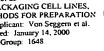
anti-PB



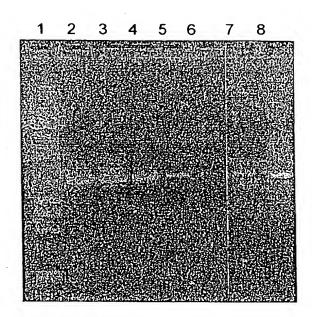


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Sheet 21 of 23
Title: ADENOVIRUS VECTORS, PACKAGING CELL LINES,
COMPOSITIONS, AND METHODS FOR PREPARATION
AND USE
Serial No.: 09/482,682 Filed: January 14, 2000
Examiner: Foley, S.A. Ar Group: 1648

Serial No.: 09/482,682 Examiner: Foley, S.A. Our Docket No.: 22908-1235B



PCR analysis for fiber presence contamination of fiberless adenonovectors.



2. positive control-10ng

1. 100 bp ladder

- 3. positive control-1ng
- 4. positive control-1pg
- 5. positive control-1fg
- 6. positive control-10⁻¹⁸g
- 7. Ad5BgF-one step preparation with soluble fiber on s.8 cell line
- 8. Ad5BgF-two step preparation (211B and S.8 cell lines).

FIG. 28



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Sheet 22 of 23

Title: ADENOVIRUS VECTORS, PACKAGING CELL LINES,
COMPOSITIONS, AND METHODS FOR PREPARATIO
AND USE Applicant: Von Seggern et al.
Serial No.: 09/482,682 Filed: January 14, 2000
Examiner: Foley, S.A. Art Group: 1648
Out Docket No.: 22908-12358 AND USE
Serial No.: 09/482,682
Examiner: Foley, S.A.
Our Docket No.: 22908-1235B

Transduction Efficiency For Fiberless Virus with and without soluble fiber (10ng/well) on S.8 cell line. Chemoluminescent reporter gene assay.

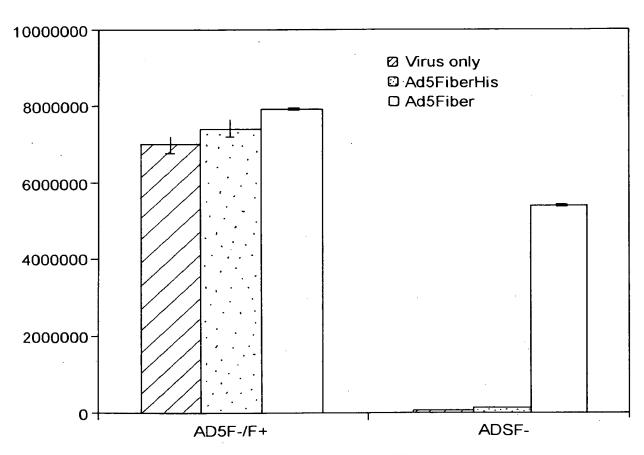


FIG. 29



HELLER EHRMAN WHITE & MCAULIFFE LLP
Sheet 23 of 23
Title: ADENOVIRUS VECTORS, PACKAGING CELL LINES
COMPOSITIONS, AND METHODS FOR PREPARATI

AND USE
Serial No.: 09/482,682
Examiner: Foley, S.A.
Our Docket No.: 22908-1235B

Applicant: Von Seggern Filed: January 14, 2000 Art Group: 1648

Transduction Efficiency of Ad5BgF- on HDF cell line with presence of different amount of 633 condition media.

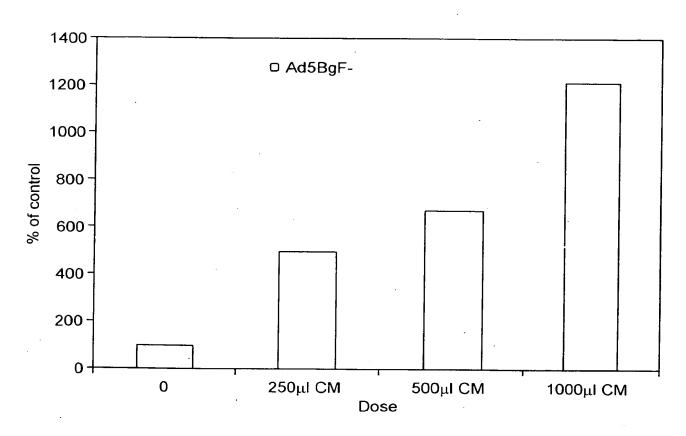


FIG. 30